Exhibit A

CURRICULUM VITAE

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PROFESSIONAL HISTORY

August, 2003- Present	Staff Scientist, Department of Immunology (Joint Appointment with Department of Molecular Biology) Genentech, Inc South San Francisco, CA 94080
August, 2002-August, 2003	Staff Scientist, Department of Molecular Biology, Genentech, Inc South San Francisco, CA 94080
September 1999-August, 2002	Senior Director, Genomic Technologies, Genentech, Inc. South San Francisco, CA 94080
July 1995-September 1999 Biology	Director, Department of Molecular Genentech, Inc. South San Francisco, CA 94080
November 1993-July 1995	Director, Department of Cell Genetics Genentech, Inc. South San Francisco, CA 94080
October 1992-November 1993 Genetics	Sr. Scientist, Department of Cell Genentech, Inc. South San Francisco, CA 94080
September 1989-October 1992 Genetics	Scientist, Department of Cell Genentech, Inc. South San Francisco, CA 94080

October 1988-September 1989 Scientist, Department of Developmental Biology
Genentech, Inc.
South San Francisco, CA 94080

October 1985-October 1988 Postdoctoral Fellow
Advisor: Dr. Keith R. Yamamoto
Department of Biochemistry and Biophysics
University of California, San Francisco
San Francisco, California

EDUCATION

1985 Ph.D. Microbiology and Molecular Genetics
Advisor: Dr. David Knipe
Department of Microbiology and Molecular Genetics
Harvard University Medical School,
Boston, Massachusetts

JOB RESPONSIBILITIES

As a Director and Senior Director of Research, I supervised the activities of up to 160 employees in the Departments of Molecular Biology, Cell Biology, Protein Chemistry, Bioinformatics and Assay & Automation Technology within the Technology Branch of Genentech Research. I reported directly to the Senior Vice President of Research. The responsibilities of these Departments were broad, extending from early stage Research through support of Development projects. The major effort in the from 1996-2001 focused on Genomics, in particular the identification, cloning, sequencing, expression and functional analysis of several thousand human genes encoding secreted proteins and transmembrane receptors. The functional areas covered within these Departments included development of programs to search EST and Genomic Databases for genes based on homology, structure or other features of interest, database design for all of Research, the DNA microarray facility (in house microarray efforts and

commercial arrays (Affymetrix, Agilent), all aspects of microarray data analysis and mining, DNA sequencing, protein expression (mammalian, baculovirus, and bacterial), protein purification, functional analysis of novel cytokines and receptors, high throughput cell-based assays, development of antibody-based assays, evaluation and support of robotic equipment for Research and Development, and the Research FACS and Confocal Microscopy facilities. We worked closely to coordinate our efforts with Research Discovery Departments. As a member of the Research Review Committee (composed of 6 representatives from Research) I set strategic and tactical direction for all projects in Research.

The goal of our genomic program at Genentech was two-fold. The first goal was to identify and patent a large number of novel secreted proteins. The second goal was to develop a technological infrastructure within Research that would facilitate our capacity to turn those gene discoveries into drugs. Following the successful completion of these goals, I was promoted to Staff Scientist and established a Research Program to develop drugs for diseases with an Immunological basis as an out growth of my interest in the TLR receptor family. I currently head an effort to target the innate immune system, and in particular, myeloid cells, in autoimmune diseses.

In addition to my responsibilities within Research I also work closely with our Legal Department to establish our strategy for filing patents, with our Business Development Group to review in-licensing opportunities and structured our external Research contracts (for example, I was the lead person on our multimillion dollar contract with Gene Logic and Celera. I meet regularly with our Clinical Group to evaluate our Research directions. I often presented our programs to the Genentech Executive Committee, the Board of Directors, the Scientific Resource Board, and to many other functional areas within Genentech. I also represented Genentech at external Scientific and Financial forums.

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Curriculum Vitae
Paul J. Godowski

PUBLICATIONS

1. Spang, A.E., Godowski, P.J. and Knipe, D.M. (1983) Characterization of herpes simplex virus 2 temperature-sensitive mutants whose lesions map in or near the coding sequences for the major DNA-binding protein. J. of Virol. 45:332-342.

2. Godowski, P.J. and Knipe, D.M. (1983) Mutations in the major DNA-binding protein of herpes simplex virus type 1 result in increased levels of viral gene expression. J. of Virol. 47:478-486.

3. Godowski, P.J. and Knipe, D.M. (1985) Identification of a herpes simplex virus function that represses late gene expression from parental viral genomes. J. of Virol. 55:357-365.

4. Godowski, P.J. (1985) Regulation of herpes simplex virus type 1 gene expression. Ph.D. Thesis, Harvard University, Cambridge, Massachusetts.

5. Godowski, P.J. and Knipe, D.M. (1986) Transcriptional regulation of herpes simplex virus type 1 gene expression: Gene functions required for positive and negative regulation. Proc. Natl. Acad. Sci. U.S.A. 83:256-260.

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9. Miesfeld, R., Godowski, P.J., Maler, B. and Yamamoto, K. (1987) Glucocorticoid receptor mutants that define a small region sufficient for enhancer activation. Science 236:423-427.

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mammalian cells by a drosophila ecdysone receptor and chimeric transactivators. Proc. Natl. Acad. Sci. USA 89:6314-6318.

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Issued U.S. Patents: 50

Secreted and trasmembrane polypetides and nucleic acids (6,767,995), Filed 7/11/2001
Cytokine receptor and nucleic acids (6,740,520), Filed 9/26/2001
Antibodies against a secreted polypetide that stimulates release of proteoglycans from cartilage (6,734,288), Filed 8/30/2001
Secreted and trasmembrane polypetides and nucleic acids (6,723,535), Filed 7/16/2001

Secreted and trasmembrane polypetides and nucleic acids (6,686,451), Filed 7/10/2001
Secreted and trasmembrane polypetides and nucleic acids (6,644,376), Filed 7/12/2001
Secreted polypeptides that stimulate release of proteoglycans from cartilage (6,642,360), Filed 5/25/2001
Secreted and trasmembrane polypetides and nucleic acids (6,635,468), Filed 7/17/2001
Tie ligand homologues (6,586,397), Filed 6/14/99
IL-17 related mammalian cytokine polypeptides (IL-17E) (6,579,520), Filed 3/22/2001
IL-17 homologous polypeptides and therapeutic uses thereof (6,569,420), Filed 12/20/2000
Human interferon-epsilon: a type I interferon (6,569,420), Filed 8/30/2001
NL4 tie ligand homologue (6,551,822), Filed 12/8/98
NL3 TIE ligand homologue nucleic acids (6,426,218), Filed 10/16/00
Tie ligands (6,420,542), Filed 6/14/99
NL4 tie ligand homologue nucleic acid (6,413,770), Filed 8/19/98
Tie ligands (6,372,491), Filed 2/23/00
Tie ligand homologues (6,368,853), Filed 6/14/99
TIE ligand homologue antibody (6,350,450), Filed 8/19/98
Tie receptor tyrosine kinase ligand homologues (6,348,351), Filed 4/1/99
Ligand homologues (6,348,350), Filed 8/28/98
Type I interferons (6,299,877), Filed 12/7/98
Human interferon-epsilon: a type I interferon (6,299,869), Filed 6/17/99
Kinase receptor activation assay (6,287,784), Filed 10/13/99
Variant gas6 polypeptides (6,255,068), Filed 5/31/95
ErbB4 receptor-specific neuregulin related ligand antibodies and uses
therefor (6,252,051), Filed 7/30/98
Compositions comprising gas6 polypeptides and articles of manufacture comprising the same (6,211,142), Filed 3/10/95
Human interferon-epsilon (IFN-epsilon), a type I interferon (6,200,780),
Filed 12/7/98
Mer receptor activation by gas6 (6,169,070), Filed 9/19/96
ErbB4 receptor-specific neuregolin related ligands and uses therefor (6,121,415), Filed 7/24/97
Nucleic acids encoding protein tyrosine kinases (6,096,527), Filed 5/22/95
Nucleic acids encoding NL-3 (6,074,873), Filed 8/28/98
Tie ligand homologues (6,057,435), Filed 10/29/97
Tie ligand homologues (6,030,831), Filed 9/19/97
Kinase receptor activation assay (6,025,145), Filed 1/20/95
Protein tyrosine kinases (6,001,621), Filed 12/20/93
Tie ligands homologues (5,972,338), Filed 9/19/97
Rse receptor activation (5,955,420), Filed 5/10/95

Kinase receptor activation assay (5,914,237), Filed 5/15/95
Kinase receptor activation assay (5,891,650), Filed 5/15/95
Hepatocyte growth factor protease domain variants (5,879,910), Filed 2/9/94
Receptor activation with inactive hepatocyte growth factor ligands (5,770,704), Filed 1/31/97
Kinase receptor activation assay (5,766,863), Filed 8/5/95
Receptor activation with hepatocyte growth factor agonists (5,763,584),
Filed 5/5/95
Antibodies specific for Rse receptor protein tyrosine kinase (5,709,858),
Filed 5/22/95
Methods and kits using macrophage stimulating protein (5,696,086),
Filed 11/3/94
Methods and kits using macrophage stimulating protein (5,696,086),
Filed 11/3/94
Single-chain hepatocyte growth factor variants (5,580,963), Filed 2/9/94
Hepatocyte growth factor variants (5,547,856), Filed 7/13/93
Single-chain hepatocyte growth factor variants (5,316,921), Filed 5/18/92

Patent Applications

>1600 Patent Applications pending covering novel secreted and transmembrane proteins

REFERENCES:

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